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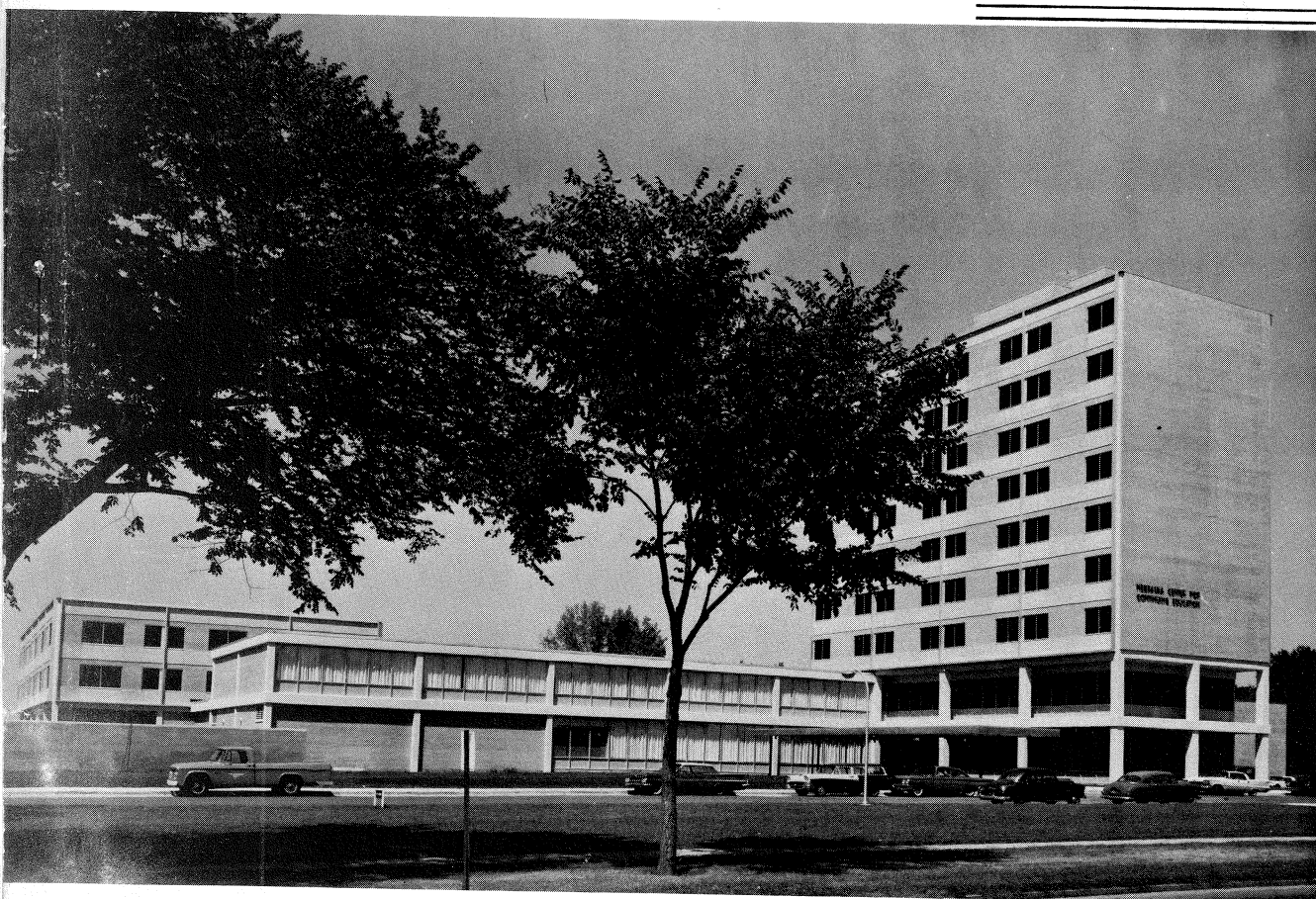
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DEPARTMENT OF

Entomology

newsletter



University of Nebraska
Number I • 1962

Cover: Nebraska Center for Continuing Education

Formally dedicated in the fall of 1961, the three million dollar Nebraska Center for Continuing Education is the product of a grant from the Kellogg Foundation plus personal and business gifts of Nebraskans of over one dollar. The Center was constructed and will be maintained to help adults meet the complexity of twentieth century living, broaden concepts and perspectives, acquire new skills and reinforce skills once learned.

The Center offers study and living facilities for a committee of three or for groups of 50, 100 or 300 and more--all in a learning atmosphere--be they businessmen, farmers, physicians, teachers, homemakers or candlestick makers.

FOREWORD

After a long, long delay, the editorial staff with pleasure and relief presents the first issue of the departmental newsletter. There were moments when it was doubted that this issue would get off the writing pad, but the Doctors Hill and Ball provided understanding and confidence, plus a little cajoling, which prompted us to see our way to the last staple.

Success of any newsletter must be ascribed in part to the comments received by former associates. We thank those who supplied information and have patiently waited for reciprocal news, and we urge other friends and associates to be generous when our successors ask for aid in subsequent questionnaires. Although your comments will be formally solicited in the near future, we are always pleased to hear from you at any time.

We wish to thank Esther Schock and Aline Bare for typing and reproducing the manuscript; without their help we could project this issue another year. Appreciation is extended to Dr. Roscoe E. Hill for written contributions and comments. Dr. Harold Ball necessarily has a large measure of our gratitude for ideas, suggestions, and a great tolerance for graduate procrastination.

The Editors,

Norman L. Braasch
John Edman

Greetings:

For quite some time it has been our hope to send out a newsletter to all former associates of the University of Nebraska, Department of Entomology. Now that job, our first attempt, has been accomplished.

It was interesting to hear from so many of you through response to our questionnaire. We wish to share with you some of the "news" obtained, and we want to tell you something about us, for we are under the impression that people often look back down the trail and wonder "how it is now back there".

We are proud of our staff which consists of seventeen professional entomologists plus ten individuals on the clerical and technician pay-roll. Presently there are seventeen graduate students, most of whom are on assistantships or fellowships.

Our facilities are scattered. Home base consists of the entire second floor of the Plant Industry Building. Much of the activity takes place elsewhere however, either in our Insectary-Greenhouse which was completed in 1953 and which has been undergoing structural modification ever since in order to keep pace with a continually changing and growing research program, or in the U.S.D.A. financed forage insect laboratory-greenhouse which was completed in 1958. One staff member is located at the North Platte Experiment Station and another at the Scotts Bluff Experiment Station. Then, of course, we continue to take some of our work to the field and this might be anywhere in the state.

Those of you long from our campus would notice many new things should you return for a visit. At least three new major buildings have been erected in the last twelve years, including the three million dollar Nebraska Center for Continuing Education on the northeast corner of 33rd and Holdrege. The Agronomy Building (Keim Hall) and the Biochemistry and Nutrition Building are the other two major structures. Everyone is looking forward to the new Agricultural Library which is scheduled to go up next.

Another recent acquisition is 8,000 acres of land near Mead which is to be developed as an Experiment Station. Agronomy, Animal Husbandry and Dairy Husbandry will make most use of this site. but the development of this project will have considerable effect on the campus and the old Experiment Farm areas northeast of Lincoln on the Adams Street and Havelock Avenue roads. It looks as if there will be nothing static around here for years to come!

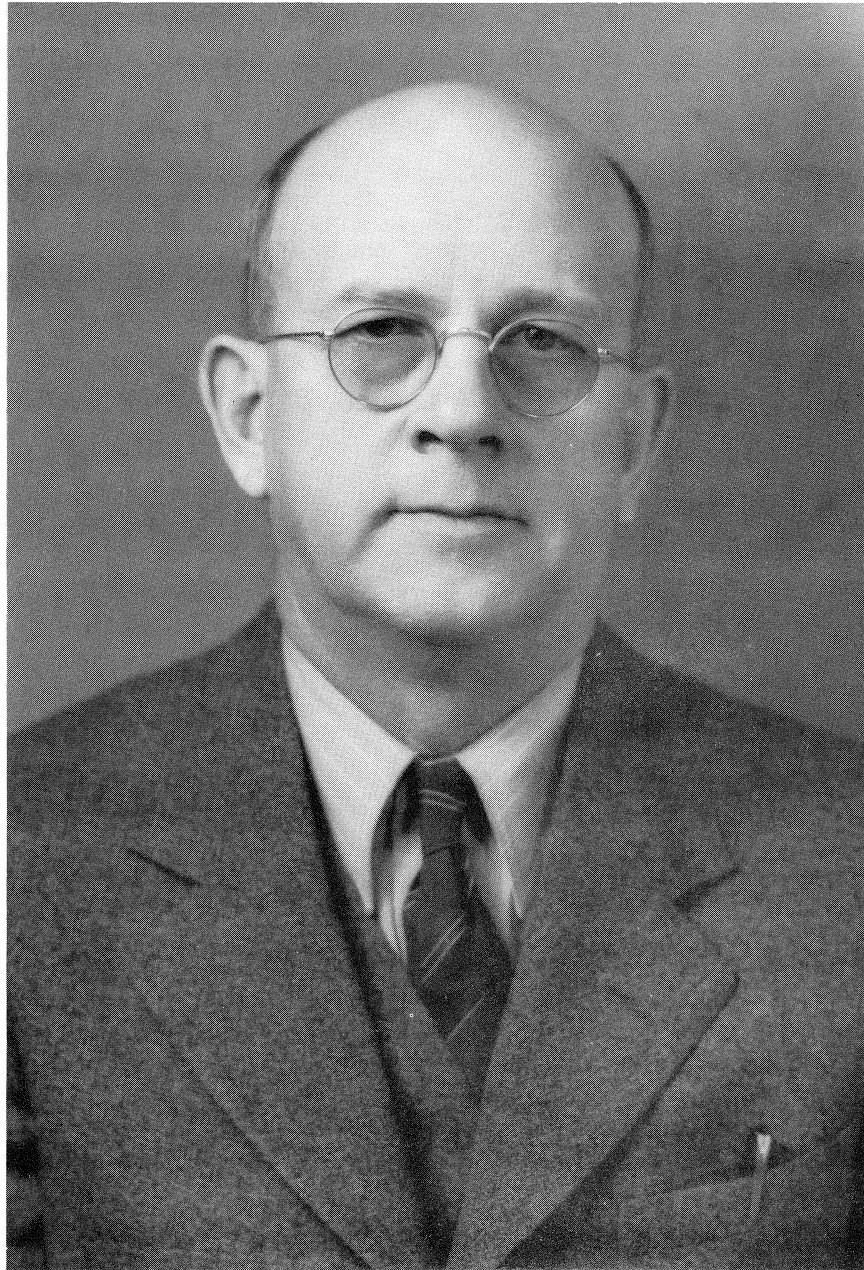
We hope you enjoy this newsletter and that we may hear from you from time to time either by mail or through a personal visit.

Best wishes to you all,

Sincerely,



Roscoe E. Hill



Orlando S. Bare, Associate Professor of Entomology and Associate Entomologist of the Agricultural Experiment Station, University of Nebraska, Lincoln, died March 31, 1958, at the age of 67. He is survived by his wife, the former Aline Norris, son James, and daughter Joyce (Mrs. Donald Voils) and four grandsons.

Professor Bare was born December 15, 1890 near Clearwater, Nebraska. He received his B.S. degree in 1926 and his M.S. degree in 1929 from the University of Nebraska. He taught in the rural schools of Antelope County, Nebraska, from 1912-1915 and again from 1926-1928. During World War I he served overseas in Co. F, 109th Engineering Corps.

Mr. Bare was appointed Extension Entomologist in Nebraska in 1929. He served the state in that capacity until 1939 at which time he transferred to the teaching staff of the College of Agriculture as Assistant Professor. In 1942 he was promoted to the rank of Associate Professor.

"Dan" Bare, as he was known to his close associates, was extension entomologist during the 1930's and effectively "generalized" the "war" against the heavy outbreaks of grasshoppers which followed a series of drouth years. He became widely known and respected throughout Nebraska for his sound, practical approaches to the solution of all pest problems. He was an authority on bees both academically and from first-hand experience, for he kept a few hives of his own and managed the Department of Entomology colonies maintained for demonstration and classroom purposes. He was a member of the American Beekeeping Federation, the Entomological Society of America, Kansas Entomological Society, Sigma Xi, Alpha Zeta, Gamma Sigma Delta and Phi Sigma.

Although Mr. Bare's talents were exhibited primarily in the field of extension and teaching, he retained an interest in the taxonomy of ants and was ever ready to lend a hand with research projects of other staff members, especially during the summer months. Most of his writing and publishing took the form of numerous extension circulars and bulletins.

Mr. Bare possessed a keen sense of humor, which enabled him to get much enjoyment out of life. He followed sports, liked to fish and bowl and played a good hand of cribbage. One of his principal hobbies was gardening, which he pursued to the point of becoming a local authority in the art. His friends were many, including neighborhood youngsters who liked to go "talk with Mr. Bare".

O. S. Bare was very much a part of Nebraska entomology throughout his 29 years of loyal and devoted service. His counsel and valued friendship will be sorely missed and long remembered by his students and those of us privileged to be associated with him professionally.

(Sketch by Roscoe E. Hill, published in Jour. Econ. Ent., Vol. 51(4):565)



STAFF

Row 1, L. to R.--Carrol O. Calkins, Jane H. Hollers, Gerry Tompkin,
Esther A. Schock, Aline N. Bare, Roscoe E. Hill.

Row 2, L. to R.--Dewey Engelskjerd, Harold J. Ball, Robert Staples,
Ben H. Kantack, George R. Manglitz, Warren T. Atyeo,
Johnny M. Perdue, Wallace E. LaBerge.

Row 3, L. to R.--Wilson J. Haupt, Richard D. Orchard, Calvin M. Jones,
Paul W. Bergman, Jerry H. L. Bell, Gerald T.
Weekman, Albert N. Kishaba, Robert E. Roselle.

Missing: Kenneth P. Pruess, Lloyd W. Andersen, Arthur F.
Hagen, James L. Jarvis, Henrietta Alexander,
Henry Stevens.



GRADUATE STUDENTS

Row 1, L. to R.--Daniel Maiello, Glen Stokes, Norman Braasch,
Clayton McCoy, Dean Kindler.

Row 2, L. to R.--Dan A. Watson, Dennis Danielson, George Rolofson,
O. William Isakson, Fred Koerwitz.

Row 3, L. to R.--Md. Mansoor Ahmad, Kenneth Orwig, Norman Gauthier,
Ahmed M. Kadoum, Gabriel Diaz.

Missing: John Edman, Muhammad S. Chawdhry

THE DEPARTMENT OF ENTOMOLOGY
University of Nebraska, Lincoln
February, 1962

Professional Staff:

Lloyd W. Andersen	M.S. Nebraska	Assistant Professor (Agr. Extension)
Warren T. Atyeo	Ph.D. U. of Kansas	Assistant Professor and Curator
Harold J. Ball	Ph.D. Wisconsin	Associate Professor
Jerold H. L. Bell	B.S. So. Dakota State	Extension Associate U.S.D.A. Cooperating
Paul W. Bergman	B.S. So. Dakota State	Instructor (Agr. Extension)
Carrol O. Calkins	B.S. So. Dakota State	Instructor (Exp. Station), U.S.D.A. Cooperating
Arthur F. Hagen	M.S. Colo. State U.	Instructor (Exp. Station)
Roscoe E. Hill	Ph.D. Iowa State	Professor and Chairman of Department
James L. Jarvis	Ph.D. Iowa State	Assistant Professor (Exp. Station), U.S.D.A. Cooperating
Calvin M. Jones	M.S. Alabama	Instructor (Exp. Station), U.S.D.A. Cooperating
Benjamin H. Kantack	M.S. Okla. State	Instructor (Exp. Station)
Albert N. Kishaba	Ph.D. Purdue	Assistant Professor (Exp. Station)
Wallace E. LaBerge	Ph.D. U. of Kansas	Associate Professor
George R. Manglitz	M.S. Maryland	Instructor (Exp. Station) U.S.D.A. Cooperating
Kenneth P. Pruess	Ph.D. Ohio State	Assistant Professor (Exp. Station)

Robert E. Roselle	M.S. Missouri	Associate Professor (Agr. Extension)
Robert Staples	Ph.D. Cornell	Associate Professor
Gerald T. Weekman	Ph.D. Iowa State	Assistant Professor

Courses Currently Offered in Entomology:

- 9. Beekeeping (2 cr II) Mr. LaBerge
- 101. Introduction to Entomology (3 cr I, II) Mr. LaBerge
- 103. Insect Taxonomy (4 cr) Mr. Atyeo
- 201. Insect Physiology (3 cr) Mr. Ball
- 203. Taxonomy of Immature Insects (3 cr) Mr. Atyeo
- 205. History and Literature of Entomology (2 cr) Mr. Hill
- 206. Insect Ecology (3 cr) Mr. Hill
- 207. Medical Entomology (3 cr) Mr. Atyeo
- 208. Insects Affecting Plants and Animals (3 cr I) Mr. Staples
- 209. Insect Morphology (3 cr) Mr. Atyeo
- 211s. Field Entomology (1-2 cr, max 4) Mr. Atyeo, Mr. LaBerge
- 225. Insect Transmission of Plant Pathogens (Bot 225) (3 cr)
Mr. Boosalis, Mr. Staples
- 291. Special Problems in Entomology (1-6 cr I, II, SS) Staff
- 300. Insect Toxicology (3 cr) Mr. Ball
- 301. Acarology (3 cr) Mr. Atyeo
- 303. Research in Entomology (1-12 cr) Staff
- 305. Seminar (1 cr per sem, max 8 cr) Mr. Atyeo, Mr. Ball, Mr. Hill,
Mr. LaBerge, Mr. Staples, Mr. Weekman
- 306. Principles of Systematic Entomology (3 cr) Mr. LaBerge
- 307-308. Thesis Course in Entomology (cr arranged) Mr. Atyeo, Mr. Ball,
Mr. Hill, Mr. LaBerge, Mr. Pruess, Mr. Staples, Mr. Weekman

Current Research Projects:

Control of Potato Insect Pests--Arthur F. Hagen

Biology, Ecology and Control of the Stable Fly--Calvin M. Jones

Relation of Insects to the Transmission and Epidemiology of Plant Diseases--Robert Staples and W. B. Allington

Sweetclover Weevil Investigations--George Manglitz

Biology of the Sweetclover Aphid and Development of Resistance in Sweetclover to this Insect--George Manglitz

Annual Census of European Corn Borer Populations--Roscoe E. Hill

Biology, Ecology and Control of the European Corn Borer--G. T. Weekman

The Biology, Ecology and Control of the Spotted Alfalfa Aphid--Roscoe E. Hill and A. N. Kishaba

Biological and Ecological Studies on Cutworms Attacking Wheat--Kenneth P. Pruess

Effects of Visible Spectrum Irradiation on Growth and Development in Several Species of Insects--Harold J. Ball

Investigations of Field Bean Insects with Emphasis on the Western Bean Cutworm, Loxagrotis albicosta--A. F. Hagen

Maintenance of Marketability of Stored Grain Through Control of Insects and Rodents--Ben H. Kantack, H. J. Ball and Stuart Nelson

Biology and Control of Insect Pests Affecting Livestock and Man--Calvin M. Jones

Systematics of Insects and Mites of the Great Plains with Special Reference to Nebraska--W. T. Atyeo and W. E. LaBerge

Systematics of Bees of the Genus Andrena in North America--W. E. LaBerge

Alfalfa Pollination by Native Bees and Other Insects--W. E. LaBerge and W. R. Kehr

Factors Influencing the Distribution and Abundance of Grasshoppers in Nebraska--K. P. Pruess and R. E. Hill

The Nature of Resistance of Selected Varieties and Strains of Alfalfa to the Spotted Alfalfa Aphid--A. N. Kishaba

Current Research Projects (continued):

Investigations of Legume and Grass Insects--G. R. Manglitz and
C. O. Calkins

Field and Laboratory Investigations of Insecticides--A. F. Hagen,
G. T. Weekman and H. J. Ball

Biology, Ecology and Control of Corn Rootworms--G. T. Weekman

PROFESSIONAL STAFF

LLOYD W. ANDERSEN (B.A., 1951, University of Minnesota; M.S., 1954, University of Nebraska), 1955 R Street, Gering, Nebraska. After earning his M.S., Lloyd joined the staff as an Extension Entomologist. After four years he transferred to the Scotts Bluff Experiment Station. Lloyd is now specializing in potato research; his work entails research on growth, development, production--in short anything to do with potatoes. Occasionally he finds time to conduct extension entomology meetings. Lloyd and his family like western Nebraska and consider it quite a contrast to eastern Nebraska. The twins are growing rapidly, as well as their younger brother.

WARREN T. ATYEO (B.S., 1952, M.S., 1953, Western Illinois University; Ph.D., 1959, University of Kansas), 400 North 73rd Street. Having specialized in acarology while at KU, Dr. Atyeo was instrumental in establishing such a course here. His metier is that of the systematics of free-living Prostigmata and of Analgesoidea. Concerning the latter, he is the recipient of a National Science Fellowship; funds from this grant support research on the feather mite family Proctophyllodidae. A portion of this grant will make it possible to study type specimens in several European museums. As curators of the Entomology Division of the Nebraska State Museum, he and Dr. LaBerge have been awarded a NSF grant for the rehabilitation of the systematics collections. If there is sufficient game in the area, Dr. Atyeo doesn't mind a little hunting and fishing.

HAROLD J. BALL (B.A., 1943, M.S., 1947, Ph.D., 1951, University of Wisconsin), 5135 Benton Street. Dr. Ball's primary interest of late has been work on response of several species of insects to various regions of the visible spectrum; a NSF grant of \$14,600 supports this investigation. More recently attempts have been made to locate photoreceptive areas in the American cockroach; this work is interesting but time consuming, however positive data is being obtained and it should be time well spent. Some research time is also being spent in attempting to determine the effects of high frequency radio waves on several insects. One of Dr. Ball's graduate students, Don Silhacek, did his thesis in this area; a new grad student, Ahmad Kadoum is now working in this area. In recent years travel has included regional meetings, and in 1960 Dr. Ball was invited to attend the Symposium on Quantitative Biology sponsored by the Long Island Biological Association. Married in 1960, his wife Ellen shares some of his enthusiasm for archery; He does some deer hunting with the bow, too.

JEROLD H. L. BELL (B.S., 1948, South Dakota State College), 1809 North 60th Street. Jerry is Assistant Supervisor in Charge, USDA, ARS, PPC. A recognized authority on grasshoppers, Jerry also handles the curating of the grasshoppers in the entomology museum. Athletics are a popular pastime, and he has quite a time keeping up with his three sons.

PAUL W. BERGMAN (B.S., 1952, M.S., 1958, South Dakota State College), 6811 Holdrege Street. Formerly a servant of the State, Paul was coaxed away from the Capitol and is now Extension Entomologist. Besides the survey work connected with his job, he has made apiculture both a hobby and a business. Right now he is concerned with selling puppies from his black Labrador. You can't sit in his office longer than five minutes or you might end up buying a supply of dog food. Perhaps this agility in selling is prompted by another interest --auctioneering!

CARROL CALKINS (B.S., 1960, South Dakota State College), 305 Witherbee Boulevard. Fishing, hunting, retrievers, these seem to be corollary interests for one with undergraduate work in Wildlife Management. After graduation Carrol and his wife Janice moved to Lincoln and he became an Entomologist (ARS, U.S.D.A.) with headquarters in the Forage Insect Laboratory. Carrol presently is screening varieties and strains of alfalfa in relation to pea and spotted alfalfa aphid resistance. In addition he is conducting ecology studies on aphids and sweet clover weevils. As of this spring Carrol is contemplating buying stock in a cigar store.

ARTHUR F. HAGEN (B.S., 1954, M.S., 1956, Colorado State University), Scotts Bluff Experiment Station, Scotts Bluff, Nebraska. In addition to formulating a key to grasshopper nymphs with Ken Pruess, Art is investigating control of the Western bean cutworm by means of different insecticides. Art is married and has four children. Nearly members of the family are the two large---very large---Siamese cats, Ching and Ming. Cat food is made to order in the tropical fish room; Art has been rearing Betas and encountering the problems common to most aquarists.

ROSCOE E. HILL (B.S., 1934, M.S., 1936, University of Nebraska; Ph.D., 1946, Iowa State University), 1340 North 45th Street. Chairman of the Entomology Department for eleven years, Dr. Hill has handled the ecological phase of course work; particular interest has been corn and potato insects with considerable emphasis on flea beetle biology. He has been awarded several grants from industrial companies for use in research on soil insect control in corn and potatoes. Outside of the department, Dr. Hill has held several offices in the North Central Branch, Entomological Society of America and was Branch Chairman in 1958-1959. Although he travels a good deal professionally during the year, Dr. Hill manages to work in some vacation travel with his family--his wife Norene and their four boys, Kelvin, Kenton, Douglas and Gary.

JAMES L. JARVIS (B.A., 1955, Miami University; M.S., 1956, Ohio State University; Ph.D., 1961, Iowa State University), 1626 D Street. Dr. Jarvis is the most recent addition to the staff, joining the department in February of this year. Research quarters are in the Forage Insect Laboratory; research involves resistance to insects attacking sweet clover and alfalfa.

CALVIN JONES (B.S., 1947, M.S., 1949, Auburn University), 3441 North 52nd Street. Alabama born, Cal has been associated for some time with the Research Branch (Insects Affecting Man and Animals), Entomology Research Division, ARS, U.S.D.A. Credited to his research talents are techniques for mass rearing of stable flies, discovery of first face flies in Nebraska (August, 1960), and the discovery of a wasp parasite of stable flies which has led to several recent studies to determine if they might have value in biological control. It might be noted that Cal set an outdoor track record between the dairy barn and the Insectary while trying to get face flies to oviposit on their natural media (fresh "hot" manure). An avid hunter (venison is the most), Cal looks forward to retirement on Look Out Mountain, Alabama, rearing only lonesome pine (no oviposition problems).

BEN H. KANTACK (B.S., 1951, Kansas State University; M.S., 1954, Oklahoma State University), 901 East Avon Lane. After completing his Masters, Ben joined the staff at Nebraska as an Instructor (full-time research, U.S.D.A.). Ben is conducting research on stored grain insect problems, particularly on the relationships of various storage molds with insects in stored grain. Mr. Kantack's great interest in molds quite naturally prompted him to discover the finer points of yeasts and a formidable recipe for home brew. Definitely a family man, Ben has a wife and five fine children. With a busy work schedule, Ben has managed to find time for course work and is starting to eye the day when his colleagues will be transformed into a conniving comprehensives committee.

ALBERT N. KISHABA (B.A., 1955, Oberlin College; M.S., 1958, Ph.D., 1961 Purdue University), 2020 North 62nd Street. Professionally interested in physiology and toxicology, Dr. Kishaba is studying the biochemistry of resistance in alfalfa to the spotted alfalfa aphid. Married and the father of two children, Dr. Kishaba is a camera buff and enjoys classical music.

WALLACE E. LaBERGE (B.S., 1949, M.S., 1951, University of North Dakota; Ph.D., 1955, University of Kansas), 3240 W Street. As a specialist of Hymenoptera, Dr. LaBerge is interested in the systematics and biology of Apoidea and is directing research on the pollination of alfalfa and other crops by native insects. He holds a National Science Fellowship for the study of "The Systematics of Bees of the Genus *Andrena* in North America". In connection with this study, March and April of last year were spent in Arizona at the Southwestern Research Station of the American Museum of Natural History; subsequent type studies were made at Urbana, Philadelphia, Washington, Boston, and New York. A regular on the staff bowling team, Dr. LaBerge also relaxes with gardening and wood-working. As of 1961 a baby girl was added to the family of wife Betty J. and son Danny.

GEORGE R. MANGLITZ (B.S., 1951, M.S., 1952, University of Maryland), 6715 Bethany Park Drive. George is an Instructor in Entomology and Research Entomologist (ARS-U.S.D.A.). After completing his B.S., he spent some time in Guatemala with the United Fruit Company. Primarily interested in insect resistance in crop plants, George is investigating the biology of the sweet-clover aphid with emphasis on resistance. Comprehensives are out of the way and the thesis is nearly completed. By June we should be able to call him Dr. Manglitz. With the addition of a baby boy to the family, George recently passed cigars.

KENNETH P. PRUESS (B.S., 1954, Purdue University; M.S., 1955, Ph.D., 1957, Ohio State University), North Platte Experiment Station, North Platte, Nebraska. As Assistant Professor of Entomology, Dr. Pruess is interested in clover root borer, wheat cutworms and application of statistics to biological and ecological factors of grasshopper distribution and abundance. Recently he has made application for a National Science Foundation grant for support of an investigation of comparative morphology and biology of some Noctuidae in relation to range and speed of flight. Besides hunting and fishing, stamp collecting has been channeled into a hobby specialty of stamps of biological subjects, particularly insects.

ROBERT E. ROSELLE (B.S., 1939, S. W. Missouri State College; M.A., 1951, University of Missouri), 6135 Judson Street. As Extension Entomologist, Bob has a tight schedule traveling in the state to meet with rural and industrial groups. Over the years Bob has established an excellent series of 35 mm. slides. Initially using the slides as visual aids for his meetings, the practical use mushroomed into a relaxing pastime. Professional interests center around field crop insects and the various insect pests of ornamental plants. As in most families vacation time means traveling to areas at or near home; a popular vacation spot for the Roselles is the Missouri Ozarks.

ROBERT STAPLES (B.S., 1940, University of Massachusetts, Ph.D., 1949, Cornell University), 1040 North 65th Street. Associate Professor of Entomology, Dr. Staples currently is conducting research concerning arthropod transmission of plant viruses. He also teaches a graduate course covering the same area and an advanced course in economic entomology. Family now consists of wife Corinne plus Lynn, Carolyn, and Douglas. Now that Doug is that age, Father Bob has taken on Cub Scouting. Summers are reserved for swimming and gardening, while winters are ideal for playing pitch.

GERALD T. WEEKMAN (B.S., 1953, Gustavus Adolphus College; M.S., 1956, Ph.D., 1957, Iowa State College), 7029 South Eldora Lane. Because of the failure of existing control measures, Dr. Weekman has intensified his research on the control of corn rootworm. Promising results were obtained during the past summer in experiments utilizing Diazinon. Funds approximating \$30,000 for the support of continued research are being supplied by the following: American Cyanamide Company, Hercules Powder Company, Shell Chemical Corporation, Geigy Agricultural Chemicals, Stauffer Chemical Company, Union Carbide, and Velsicol Chemical Company. As of March 3 a baby son, Thomas Lee, was a welcome addition to the Weekman household.

CLERICAL AND TECHNICAL STAFF

HENRIETTA ALEXANDER, 2603 Vine Street. A familiar face in the Forage Insect Laboratory, Henrietta has been with the department for two years and has more patience with aphids than most people. An assistant lab technician, she handles many of the routine lab tests and also runs anabiosis tests on plants.

ALINE N. BARE, 1340 North 46th Street. Mrs. Bare has served as secretary in the department since 1953 and now handles correspondence of the Extension Entomologists as well as assisting in the front office. A big assignment for her now is typing the thesis of her son Jim, who will graduate from medical school in June. When she does have an extra minute or two, Mrs. Bare fills it out with music and reading and, of course, yardwork in the spring and summer.

DEWEY ENGELSGJERD, 4000 Cornhusker Highway, Lot 21-B. Formerly right hand man to Cal Jones, Dewey has assumed the duties of greenhouse foreman in the Insectary. Married and the father of two children, Dewey is a native of near Broken Bow, Nebraska. Pheasant hunters in the department readily vouch for Dewey's talents as a hunting guide; each fall he acts as "white hunter" for the pheasant hunting crew. Travel, gardening and mechanics are high on Dewey's list of outside interests.

WILSON HAUPT, 5630 Baldwin. Formerly a greenhouse technician in the Department of Plant Pathology, Wilson transferred to this department this fall and is now Insect Research Helper under Cal Jones. A member of the group working on the face fly problem, he is currently screening chemicals as attractants for the face fly. His former job with the Plant Pathology Department made gardening somewhat of a "busman's holiday", nevertheless he finds gardening a good hobby.

JANE HOLLERS, 1525 North 51st Street. Mrs. Hollers attended Hastings College and the University of Nebraska. Now that both her children are of school age, she began work this fall as part time secretary in the department. Prime interests are her children and music.

RICHARD ORCHARD, 1934 F Street. A world traveler by virtue of the Navy, Dick joined the staff in 1961. Insect Research Helper to Cal Jones, Dick maintains the stable fly colony and assists in stable fly research. Depending upon the season, Dick participates in bowling, basketball, softball, water skiing and wood working.

JOHNNY PERDUE (B.S., 1961 Tuskegee Institute, Alabama), 826 C Street. Biological Aid with the U.S.D.A., Johnny joined the staff this fall after graduation. Discovery of the face fly in Nebraska in 1960 prompted research to control this fly before it becomes a serious pest. Johnny maintains the face fly colony and is carrying out investigations concerning chemical and sex attractants of face flies.

ESTHER A. SCHOCK, 1142 North 44th Street. Sally, as she perhaps is better known, has been departmental secretary since 1928. In 1932 part of this tenure was on a part time basis until the children were of school age. During this period she has virtually revamped the entomological library in addition to handling the secretarial chores. A proud grandparent, she now has five grandchildren that she can spoil. Sally and husband Mel are avid travelers and recently have made trips to Florida, New York and Colorado.

HENRY STEVENS, 2605 Vine Street. Henry is Insect Research Helper (ARS, U.S.D.A.) at the Forage Insect Laboratory. The Joe Miller of the department, Henry can be relied upon for the latest joke or quip. As a result of last year's visit to the hospital, Henry will attest to the mammalian toxicity of at least one insecticide. Father of two children, Henry is getting prepared to pass cigars in April.

GERRI TOMPKIN, 2030 North 62nd Street. After working in the Plant Pathology Department for five years, Gerri was lured away to become Clerk-Stenographer for the Forage Insect Laboratory. After regular business hours typing skill is put to good use, since Gerri is regularly contacted for thesis typing.

GRADUATE STUDENTS

MANSOOR MUHAMMAD AHMAD: 3282 Holdrege. Mansoor came to Nebraska all the way from Bihar, India. After receiving his M.S. from Muslim University in Aligarh, India, Mansoor was appointed as a graduate instructor in entomology at State Agricultural College, Ranchi (Bihar), India. Later he served as research assistant in entomology at the Agricultural Research Institute. Specific research areas were studies of the mango shoot gallmaker, and paddy gall fly. Mansoor is married, but he was forced to leave his wife in India when he came to the United States (that good ole' government red tape).

NORMAN L. BRAASCH: 1844 South 41st. A Cornhusker native, Norm graduated from NU in 1950 with a degree in secondary education. After a year of teaching and a hitch in the service, he returned to Lincoln and received his M.A. in 1954. After teaching high school biology for two years, entomology looked promising, so it was back to the books once again. This year should see the completion of his research on feather mites. Research has had its lighter side too, because he has been able to travel in a good share of the United States -- there are scores of birds. When the time permits he lives it up on the handball court; the spirit is willing, but the flesh is weak, particularly at the joints.

MUHAMMAD SADIQ CHAUDHRY: 3268 Orchard. Sadiq returned from Christmas vacation with smiles all over his face. After a year's tenure here in Lincoln, he had been able to visit a portion of his family in New York. His family has its origin in West Pakistan; Sadiq is from Lyallpur. He was married just before leaving for the United States and hopes that his wife can join him soon. Receiving his B.S. in Agriculture in 1951 (Lyallpur), Sadiq worked for a time to put his brother through medical school. Now he is on the receiving end to complete his graduate work.

DENNIS DANIELSON: 1442 North 42nd Street. The latest migrant from the north, Denny's home is Duluth, Minnesota. He attended the University of Minnesota, Duluth Branch, for his undergraduate work before coming to Nebraska this past fall to study under a National Defense Fellowship. Denny is married and the father of a girl, plus; the plus will arrive in the spring. Army days were spent as a paratrooper touring much of the European continent.

GABRIEL DIAZ: 3240 W Street. Gab, who is a newcomer to Nebraska and the United States, hails from Delgado, Mexico. He received his B.S. from the Escuela de Agricultura in Chihuahua, Mexico in 1959. Gab knew only a little English when he came to Nebraska, but he quickly picked up the language, including a goodly number of terms not found in Velazquez, and by the end of the year he spoke like a native. Well, not quite: he lacks the midwestern nasals. Working on the entomology farm this summer and starting his research on the corn earworm didn't leave much time for his afternoon siesta, nevertheless Nebraska is AOK.

JOHN D. EDMAN: 5240 Cleveland. A native Minnesotan, John began graduate work in this department after receiving his B.S. at Gustavus Adolphus College in 1959. His wife Lillian is an Instructor at the YWCA and his son Scott is acquainting him with latrine detail. John spent the summers of '59 and '60 at Gavins Point Dam on a mosquito control project. During the past summer he received his M.S. while working for the Lincoln Health Department on mosquito abatement. He has been studying under a National Defense Fellowship for the past two years.

NORMAN GAUTHIER: 2765 Everett Street. Norm and his wife Bonnie came to Nebraska from Massachusetts in the fall of 1960, after Norm received his B.S. from the University of Massachusetts. Under a National Defense Fellowship Norm currently is working on a problem related in insect transmission of plant virus disease. More than just familiar with motors, Norm has worked on several motors of the grad students . . . good job too!

OSCAR W. ISAKSON: 1610 L Street. With a major interest in bees Bill transferred along with Dr. LaBerge from Iowa State. Prior to completing a semester at Iowa State, Bill had received his B.S. from Gustavus Adolphus College in 1959. Working under Dr. LaBerge, Bill has spent the last two summers at the Scotts Bluff Experimental Station working out problems of alfalfa pollination by different bees. Handball and bowling keep Bill in shape for tennis and fishing in the summer. And Captain Bill's bowling team "The Assistants" does might well!

AHMED M. KADOUM: 3268 Orchard. Ahmed comes to Nebraska from Alexandria, Egypt, U.A.R. He graduated from the Rosetta schools and the University of Alexandria College of Agriculture with his major in the Department of Pesticides. He was also an instructor in the Department of Pesticides before coming to Nebraska to work on a M.S. in Entomology. Ahmed is presently doing toxicological work on stored grain insects relating to high frequencies and subsequent biochemical changes.

S. DEAN KINDLER: 2830 Starr Street. Fishing and hunting are favorite pastimes for Dean, but lately he has had little time for outdoor recreation. Dean is the recipient of a National Defense Fellowship and is working on the nature of resistance of alfalfa to the spotted alfalfa aphid. Originally from Blair, Nebraska, Dean initially began undergraduate work at Dana College, however he graduated from the University of Nebraska in 1959.

FRED KOERWITZ: 5445 Saylor Street. Fred's office looks like a capsule version of Cape Canaveral, but the only thing Fred is tracking is moth flight. Working under Dr. Pruess, Fred is studying the flight range of several moths. Fred was awarded a National Defense Fellowship in 1959 after receiving a B.S. from Peru State Teachers College. He is married and the father of two little girls who always make sure that Fred isn't late for his eight o'clocks. Any vacation period of more than 3 days prompts Fred and family to hit for Colorado and their cabin in the mountains; what a way to collect insects!

DANIEL G. MAIELLO: 1610 L Street. Dan graduated from the University of Rhode Island in 1954. Having served time as a professional soldier in Europe, he decided in 1956 to try his luck "on the outside". He then worked in Los Angeles on a murine typhus project while on temporary assignment with the Bureau of Vector Control, California Department of Health; later he transferred to the desert to work on control of economic insects. While working for his M.S. at Rhode Island, Dan took two summer acarology courses at the University of Maryland in 1958 and 1959.

CLAYTON W. MCCOY: 1610 L Street. Clay is another Minnesotan and another Gustavus Adolphus alumnus, as of 1960. Clay probably could drive from Lincoln to Omaha blind-folded; the Omaha stockyards are the base of operations for his research on effect of wasp parasites on house and stable flies. In spite of research pressure, Clay managed to vault the German hurdle this summer. A bit more spare time permits him to hawk the dollies now and then.

KENNETH R. ORWIG: 1908 Euclid Street. Ken came to Nebraska in September '59 from Pennsylvania where he received his B.S. at Lebanon Valley College. Ken is studying under a National Defense Scholarship and currently working with feather mites. After marrying his college sweetheart, Ken spent the perfect honeymoon collecting mites in the southeastern states with Dr. Atyeo and Norm Braasch. If he had spare time, he would like to curl up with a good book or his drawing board.

GEORGE ROLOFSON: Route 5. For the past four years George has been a familiar figure in the entomology classrooms as an undergraduate entomology major. This fall George joined ranks with the draft dodging degree diggers at NU. Survival kit is in the form of an assistantship and Dr. Weekman provides the work. Of course he still has the advantage of mom's home cooking since his home lies within Lincoln's five mile reef.

GLENN M. STOKES: 6844 Aylesworth. Glenn, his wife Yvonne and their two children are imports from Lafayette, Louisiana. Glenn received his B.S. from the university of Southwestern Louisiana with a major in zoology and a minor in chemistry. Glenn is another recipient of a National Defense Fellowship. A real haunt of the book shops, Glenn is getting a good start on a personal library that may rival the Library of Congress.

DAN A. WATSON: 4401 Everett. Dan is a right hand man for Cal Jones and can give all kinds of pointers if one would like a hobby of raising stable flies. Dan just received his degree from Nebraska Wesleyan University last June. Trained as a high school teacher, he decided to try his hand at graduate studies. Rather handy in the shop, Dan built his own motor boat and has virtually promised the grad crew a skiing party on the lake next spring.

ATHLETICS

Last year the highlight of the athletic scene was the spirited competition of the "Tumble Bugs" and the "Assistants" in the Faculty Bowling League. The "Tumble Bugs"--comprised of faculty members Hill, Atyeo, Weekman, LaBerge and Bell--finding the strikes and spares a trifle illusive, seemed to need a sparkplug, but they couldn't get Ball out of retirement. On the other hand, the "Assistants"--made up of grad students Isakson, Edman, Kantack, McCoy and Winfield--beat the "Tumble Bugs" and continued winning for a strong third place finish. After three years the faculty finally tumbled the "Assistants" this year with the aid of a favorable foul line.

The "Pathogens", comprising the graduate students from Plant Pathology and Entomology, have been trying to overcome spastic tendencies by participating in the University intramural basketball and softball leagues. The spring of 1960 saw the top effort by this group, which captured the University independent softball crown and dropped a close one to finish runner-up in the All-University softball tournament. Some of the "stars" of this outfit have gone on to continued fame in the Lincoln city leagues.

Departmental picnics usually bring out various and sundry athletes, and last spring was no exception. In softball various positions were tried by all. Ike was outstanding, but later excelled even more in pantomiming. Apparently athletic ability is a popular gene in the Hill family. Balancing this panoply of talent was the usual contingent of strike-out kings. "Rocky" Ben Kantack demonstrated some of his talents, usually reserved for St. John's Church, by blasting a couple of round trippers in the work-up softball game . . . believe Fred Koerwitz played pro baseball before arriving at NU . . . Clay McCoy demonstrated his sliding ability most of the afternoon--said something about slippery shoes. In the horseshoe department, Staples and Jones led the pack . . . no competition.

Among the hunting and fishing enthusiasts, prime time is the June fishing trip of Atyeo, Braasch, Isakson, LaBerge and Carlson to northern Minnesota and the Gunflint Trail. The boys picked up canoes at Gunflint Lodge and back-packed all equipment. Penetrating the "north woods" for 7-8 miles, they set up a base camp for Operation Do As You Damn Please. Fish bites were few, but it was just the reverse for mosquitoes and black flies.

Last October marked the exodus of nine hunters to Broken Bow and some pheasant hunting. Plenty of birds, but those behind the guns had their troubles. Maybe a few lessons are in store from the gun experts, Weekman and Jones. They both returned with deer from the Pine Ridge area in November. Dr. Ball is still waiting for the day he bags his deer via bow and arrow. Meanwhile, he continues to sharpen his eye by tearing up the targets at the local archery range.

ALUMNI

CARL T. BRANDHORST (Ph.D., 1961, Zoology), 55 Pearl St., Seward, Nebraska. Mr. Brandhorst is Professor of Biological Science at Concordia Teachers College, Seward. Professionally, plant insect relations and ecology are of major interest, particularly plant galls.

LAWRENCE "LARRY" F. BEWICK (Asst. Prof. 1949-51), 2118 Valencia Ave., Monroe, Louisiana. At present, Larry is District Sales Manager, Southern District, for the Velsicol Chemical Corporation. As Sales Manager, Larry spends much time on the road--Arkansas, Tennessee, Mississippi, and Louisiana.

CHARLES H. BRETT (M.S., 1938), 1425 Dixie Trail, Raleigh, North Carolina. Charles and Melba drive back to Lincoln each August for a short visit with relatives and friends. As Professor of Entomology at North Carolina State College, Charles has been conducting research on vegetable varieties for resistance to insects. Homework involves stereophonics and photography.

EDWIN L. BRUNKEN (B.A., 1950), The Pillsbury Company, 1525 E. Phillips, Springfield, Illinois. As plant entomologist, Ed is directly responsible for all matters pertaining to grain and cereal plant sanitation, fumigations, etc. Outdoor sports and hunting take up some of his time; he and his family generally try to vacation here in Lincoln.

WENDELL BURKHOLDER (M.S., 1956), 2216 Chamberlain Ave., Madison, Wisconsin. In addition to graduate work at the University of Wisconsin, Wendell also is conducting research on the biology and ecology of stored product insects, particularly the Dermestidae. Now, having the advantage of the Wisconsin lakes, Lee and Wendell have added sailing as a hobby.

STANLEY D. CARLSON (M.S., 1961), 2509 Hobbs Drive, Manhattan, Kansas. Picking up his B.S. at the University of Minnesota, Stan decided to go for a M.S. at NU. After hurdling French, Stan managed the degree as of June last. Office space is now provided by USDA (Stored Grain Insects Laboratory). Stan's research assignment is checking out the physiological effects of inert dusts on stored grain insects. Big interest at the moment is the new home and laying the groundwork for a Ph.D.

STEWART CLARE (District Supervisor, Grasshopper Control, USDA, 1937-1939), Department of Biology, Union College, Barbourville, Kentucky. Presently department chairman and chairman of the science division, Dr. Clare has had extensive travel professionally: 1954-55, Lecturer in Zoology, University of Adelaide (Australia); 1955-56, Senior Research Officer, Sudan Government, Ministry of Agriculture; 1957, Senior Entomologist, Klipfontein Organic Products Corporation, Johannesburg, South Africa; visited the Soviet Union in 1956. Dr. Clare reports dual research interests; biochemical studies on pigments, extractures, exudates and extraneous materials of woods; circulation of hemolymph in insects.

RICHARD V. CONNIN (Entomologist, USDA, 1954-1957), 712 South 12th Avenue, Bozeman, Montana. After completing research concerning the sweetclover weevil, Dick transferred to Bozeman Montana, where he is now Assistant Investigation Leader relative to grasshopper and Mormon cricket investigations. History, philosophy, and theology occupy Dick during the winters and summer vacations mean the nearest trout stream.

WINTHROP W. DARLINGTON (B.S., 1939; M.S., 1941), 12 Harbord Dr., Bloomington, Illinois. Winthrop continued graduate study at Oklahoma State University and received his Ph.D. in 1956. He is now Associate Professor of Natural Science at Illinois Wesleyan University and cites aquatic biology as a major professional interest. As a science instructor, he was fortunate in being able to travel to Jimma, Ethiopia (1956-1958) where he taught in the Jimma Agricultural and Technical School. Winthrop states "I feel somewhat like an enemy alien among entomologists, since I have abandoned the field entirely. I am interested in teaching rather than in research or applied work, and in most of the major areas of science rather than in one."

RALPH W. DAWSON (M.A., 1923), 507 Skyline Drive, Pullman, Washington. Although enjoying the advantages of retirement, Dr. Dawson still maintains a professional interest in insect taxonomy. In addition to the address listed above, summers often find Dr. Dawson at Brownsville, Nebraska.

J. A. DENNING (District Supervisor, Grasshopper Control, USDA, 1938), 2020 W. Main, Jefferson City, Missouri. The Dennings have lived in Jefferson City since 1941 and feel quite a part of that community. Their daughter Marilyn is a junior at the University of Missouri this year. Formerly a teacher of botany and zoology at the Junior College, Mr. Denning is now the Director of Buildings, Grounds, Purchasing and Transportation for the Jefferson City Public Schools District. Mr. Denning also provides consultation service for insect pest or plant disease problems.

DEAN ECKHOFF (B.S., 1931), Alliance, Nebraska. The past year involved a major change for Dean and his family. Having lived for eighteen years in Central City, they moved to Alliance, Nebraska. Dean is with the U.S.D.A. as a livestock inspector, his territory being the eleven counties in the panhandle of western Nebraska.

HUSSEIN M. ELMOSA (M.S., 1957), Department of Entomology, Michigan State University, East Lansing, Michigan. While at Nebraska, Hussein completed a thesis involving resistance of cockroach nymphs hatched from chlordane-treated oothecae. He is now completing a doctoral thesis at Michigan State.

EDSON FICHTER (B.S., 1935; M.S., 1937; Ph.D., 1942), 256 South 11th Ave., Pocatello, Idaho. In conjunction with his position as Professor of Zoology, Idaho State College, Edson is the Curator of

Mammology. In addition he serves as Field Consultant for the Idaho Department of Fish and Game. His interest in wildlife management has been supplemented by two grants from the Wildlife Management Institute for a study of productivity in the mourning dove. Ed doesn't spend all his time in the field, however, for he has been director of the Chancel Choir, First Methodist Church, for seven years.

DORIS B. GATES (M.A., 1947), So. Route, Chadron, Nebraska. Assistant Professor of Biology at the Nebraska State College, Doris' route address is that of her country home which is seven miles south of Chadron. Doris says that the locale is an excellent place to study insects, birds, and plants. In addition to entomological interests, Doris has added the field of ornithology and currently is editor of the Nebraska Bird Review. And botany should not be bypassed: Doris was the recipient of the Weber-Ernst Botany Award in 1952.

MARGARET M. GEHRKE (Laboratory Technician, 1944-1956), 5218 Adams Street, Lincoln, Nebraska. Associates will well remember the sparkling personality of Mrs. Gehrke. Retirement in 1956 permitted a well deserved rest and she now has returned to reading the classics and "delightful studies in Anthropology".

LEWIS T. GRAHAM (Assistant Entomologist, NES, 1942), 701 Harding Street, Lafayette, Louisiana. Dr. Graham is now head of the Department of Biology, University of Southwestern Louisiana. Particular interests are those of teaching and aquatics. Weekends sometimes permits fishing at Redfish Point on the Gulf.

EUGENE W. HAMILTON (M.S., 1952), Northern Grain Insects Research Laboratory, College Station, Brookings, South Dakota. Gene completed his doctorate at Iowa State College in 1960. He is now conducting toxicological research. Special interests have always been fishing and more fishing. He also likes to invent gadgets--some of which are even useful. While working on his doctorate at Ames, Gene operated a reportedly quite successful pest control business on the side.

HAROLD A. HAUKE (M.S., 1934), 5632 14th Ave. South, Minneapolis 17, Minnesota. Harold is the Assistant Regional Supervisor (Surveys) USDA, Plant Pest Control Division, Regional Office, Minneapolis, Minnesota. This position gives Harold the opportunity of traveling over the United States to meetings, field days, etc. Harold extends true Scandinavian hospitality--the coffee pot is always on the stove.

EPHRIAM HIXSON (Department Chairman, 1946-1950), American Embassy, T.C.M., New Delhi, India. Dr. Hixson is at present Agricultural Education Advisor to the Government of India and I.C.A. plus coordinator for the five University contracts in India working with the 45 colleges of Agriculture and Veterinary Science. Travel for Dr. Hixson reads like a tour folder: Cairo, Athens, Rome, Geneva, Zurich, Frankfurt, Brussels, Paris, London, Hawaii, Tokyo, Manila, Hongkong, and Bangkok. Dr. Hixson and his family were on home leave this past summer and returned to India in August.

JAMES FRANCIS JANULEWICZ, Clarks, Nebraska. An honor roll student at the University of Nebraska, Jim has applied talents to insect control of stored grains. He is also interested in feed formulation and feed effect on animal growth. On the lighter side, fishing and gardening fill out the year's activities.

I. AKIF KANSU (Visiting Professor, 1958), Halk sokak No. 114A-1, Sihhiye, Ankara. Mr. Kansu was a visitor in our department in 1958 and presently is with the faculty of Agriculture, Ankara University, Turkey. Current research involves the uses of radioisotopes in Entomology and as an adjunct, Mr. Kansu combines avocation and vocation in collecting and classifying butterflies.

EDWARD C. KLOSTERMEYER (B.S., 1940, M.S., 1942), 611 Ellen Avenue, Prosser, Washington. With the completion of his M.S., Ed then received the Ph.D. at Washington State University (1952). Apparently happy with the state, Ed remained at Washington State where he is now with the Irrigation Experiment Station. Friends will remember his wife Jeanette; Lyle and Mary Jean complete the family.

O'DEAN L. KURTZ (Student 1950-1951), 17194 Runyon Street, Detroit 5, Michigan. O'Dean received his M.S. from George Washington University in 1955 and is now entomologist and microanalyst for the Federal Food and Drug Administration.

EDWARD F. LAIRD, JR. (M.S., 1951), 3055 Priscilla St., Riverside, California. Work at the Citrus Experimental Station keeps Ed traveling up and down the state of California. Professional interests have been virus-vector studies with particular taxonomic interest in aleocharids.

DONALD E. LAWSON (B.S., 1951; M.S., 1955), 3125 Gillham Plaza, Kansas City, Missouri. Don is technical sales representative for the American Cyanamid Company. Extensive travel through the Midwest permits a stop-over in Lincoln occasionally. Colorado is a favorite state particularly because of its skiing advantages. Slalomming is pretty well perfected, but the problem is keeping the downhillers out of the towline.

JACK W. LOMAX (B.S., 1947; M.S., 1953), 7166 Orchard St., Riverside, California. Jack is technical sales representative with the Velsicol Chemical Corporation and includes Mexico as part of his sales territory. Son James Allen (12) and daughter Judith Lynn (11) are growing like weeds and will soon be in their teens. Besides golf and fishing, recent years have seen Jack experimenting with subtropical horticulture.

CHARLES F. KEECH (B.S., 1932; M.S., 1934), 915 North Cotner, Lincoln, Nebraska. An impressive number of dragonfly and damselfly specimens in the University of Nebraska Museum are labelled as collected and identified by Charles F. Keech. His present position as District Engineer, Ground Water Branch, United States Geological Survey indicates interest in hydrology with some departure from graduate days. Hobby: singing--barbershop style.

DOROTHY JOHNSON KNULL (Graduate Student, 1931-32), 330 E. Dunedin Road, Columbus 14, Ohio. Mrs. Knull lists her present position as housewife, but she also assists her husband in collecting insects; Mr. Knull is Curator of Insects, Ohio State University. Each spring and summer, two or three months are spent in traveling and collecting insects. Leafhopper systematics is of special interest to Mrs. Knull.

RICHARD LYNESS (M.S., 1950), 2400 West Newton Circle, Irving, Texas. With four boys ranging in age from 2 to 14 and said boys involved in MYS, paper routes and music lessons, one of Dick's chief jobs is serving as Family Traffic Coordinator. At Ag Specialties--besides raising flies, roaches, etc.--he is busy trying to make the products do as much as the salesmen say they will and draw up new ways of exterminating insect fauna. In his spare time he even gets a lick in on his Ph.D.

MELVIN E. MCKNIGHT (M.S., 1958), 110 Hartman Street, Fort Collins, Colorado. A Vermonter, Mel exchanged the Green Mountains for the Colorado Rockies after he completed his degree in 1958. Now with the U. S. Forest Service, Mel is interested in the development of techniques for evaluating infestation trends of forest insects in Region 2. For those who haven't heard, another McKnight, Mary Elizabeth, has been added to the family.

CLARENCE E. MICKEL (B.S., 1917), 1775 N. Fairview Ave., St. Paul 13, Minnesota. Now Professor Emeritus of the University of Minnesota, Dr. Mickel began his career as the First Extension Entomologist of the University of Nebraska (1917). In 1922 he became the first Extension Entomologist of the University of Minnesota. After serving as curator and staff member for a number of years, Dr. Mickel became Chairman of the Department of Entomology and served in that capacity from 1944 to 1960. President of the Entomological Society of America in 1945, Dr. Mickel then served as President of the International Great Plains Entomological Conference (1946-1955). In 1957 he served as Entomological Advisor to Seoul National University, Suwon, Korea.

MARTIN H. MUMA (Associate Professor and Curator, 1945-1951), 401 W. Lake Summit Drive, Winter Haven, Florida. Casa Arana is the lake front home of the Martin Muma family. A feature of the home is that it was built by the Mumas themselves. Tucked away to the rear of the house is a combination den and lab in which Dr. Muma manages to continue taxonomic work on the Arachnida. The office 8-5 stint involves biological and ecological control of citrus insects and mites. When "off-duty" science-fiction writing lags, speleology and archeology fit in nicely. As for vacations, who needs a vacation with a lake front home in Florida?

JOSEPH R. MURPHY (Ph.D., Zoology), 570 E. 4th North, Orem, Utah. Credits in Entomology rounded out Joe's doctoral program of ecology and ornithology. Considerable practical experience was gained as Ranger Naturalist with Yellowstone National Park. Joe is now an assistant professor (Zoology) at Brigham Young University.

DOUGLAS D. NELSON (B.S., 1948), Toulon, Illinois. Doug is now Regional Manager for Niagara Chemical Division, Food Machinery and Chemical Corporation, Wyoming, Illinois.

ROBERT H. NELSON (B.S., 1929; M.S., 1930), 7309 Finn's Lane, Lanham, Maryland. After serving as entomologist for Iowa State, Ohio State, and Agricultural Research Service, Dr. Nelson is now Executive Secretary of the Entomological Society of America.

PETER A. NYHUS (Graduate Student, 1960-1961), Gustavus Adolphus College, St. Peter, Minnesota. Pete completed his under-graduate work at Gustavus Adolphus College where he was a full-back on two championship football teams. Pete also excelled in track and co-educational field trips. Completing one semester on an assistantship guarding Dr. Staples' leafhopper cages, Pete returned to Gustavus Adolphus to coach the freshman football team and to complete additional hours in education. Pete's pride and joy was the prize canine, Snoopy. It just wasn't the same after Snoopy left.

GEORGE A. PREECE (P.S., 1950), 3566 South 48th Street, Lincoln, Nebraska. George is owner of a Lincoln exterminating firm and manages to find time for real estate ventures on the side. As is the case for many entomologists, professional and vacation travel is often combined.

CORNELIUS B. PHILIP (B.S., 1923), Rocky Mountain Laboratory, Hamilton, Montana. Following graduation from the University of Nebraska, Dr. Philip completed requirements for a M.S. and Ph.D. at the University of Minnesota in 1925 and 1932 respectively. In 1945 Dr. Philip was awarded the USA Typhus Commission Medal. Additional honors include an honorary Doctor of Science (University of Nebraska, 1952) and an Outstanding Achievement Award (University of Minnesota, 1960). Recipient of numerous grants, Dr. Philip was a Guggenheim Memorial Fellow in 1941 and 1942. As a tabanid authority, Dr. Philip has published over 100 articles on horse-flies of the world. Along with fishing and hunting in Western Montana, an active interest in swimming has been maintained since captaining first Nebraska swimming team in 1921 and 1922.

JOE PAPPAS (B.S., 1948; M.S., 1950), 4646 Gardena Drive, Riverside, California. Joe's current work involves research on armoured scale of citrus. A secondary assignment is screening and field testing for European brown snail control. On November 13, 1959 Joe bowled an American Bowling Congress sanctioned 300 game. This is the only such game in the history of the local association presently serving 12,000 bowlers.

LAURENCE W. QUATE (Faculty, 1951-1958). Now entomologist with the Bernice P. Bishop Museum (Honolulu), Larry manages to take advantage of luaus and Waikiki beach sessions during his off hours. Research, particularly psychodid research, has prompted travel in British North Borneo, Malaya, Thailand, Japan, Taiwan, Laos, India, Egypt, and Europe; the European tour included the International Congress of Entomology at Vienna.

RAYMOND ROBERTS (M.S., 1927), 5012 Adenmoor Ave., Lakewood, California.

A member of the Nebraska Entomology Department for nearly 18 years, Mr. Roberts has sailed many a ship since his departure in 1942 for the Sanitary Corps, U. S. Army. After his release in 1946, he spent a short period as entomologist at the Weslaco Substation of Texas A & M before returning to Japan and a position with the Occupation Forces. Mr. Roberts found challenging and sometimes very frustrating problems in trying to introduce new and better methods of insect control in Japan. It appears that "payola" is not restricted to American television; the Japanese Ministry of Agriculture may have had its share too! In 1955 he returned to the United States and became associated with the American Chemical Company, a fumigation and pest control operation out of Los Angeles. Mr. Roberts has four children; all are grown and there isn't an entomologist in the lot. As of his reply to our questionnaire, which was some time ago, as others of you know, Mr. Roberts was recovering from a broken ankle with complications. We trust he is back on his feet once again. His very informative and interesting letter was enjoyed by the whole department.

DONALD R. SCOTT (B.S., 1948, M.S., 1952), Parma, Idaho. Assistant entomologist with the University of Idaho (Parma Branch Station), Don has been working out the biology of Hylemya antiqua. Tetranychid mites also come in for their share of attention. Away from the office, Boy Scout work is of major interest. Situated in the heart of one of the best fishing and hunting areas in the United States, Don says that he neither fishes or hunts.

LYLE F. SELKO (B.S., 1935; M.S., 1936), 2612 Berkshire Way, Oklahoma City 20, Oklahoma. Lyle is now Director of Public Relations of the Southwestern Diabetic Foundation. With professional interest in wildlife management and research, hunting and fishing take up a good share of leisure time. Colorado and New Mexico have been vacation spots in recent years.

DON L. SILHACEK (B.S., 1958; M.S., 1960), 1113 University Avenue, Madison, Wisconsin. One of the "live ones" while at Nebraska, Don is now a research assistant in insect physiology at the University of Wisconsin; a Doctor soon will prefix his name. Academic honors include Alpha Zeta, Gamma Sigma Delta, and Sigma Xi. Versatile, Don says that he is interested in almost everything except the dry sciences and here considers taxonomy high on the list.

B. THOMAS SNIPES (M.S., 1934), 6831 North Baltimore, Kansas City 18, Missouri. After receiving his doctorate at Iowa State College, Dr. Snipes worked and traveled in Brazil. After service in the military and other positions, he joined the Chem-Agro Corporation. Within the past year he has taken a position with the Velsicol Chemical Company of Chicago. Tom now serves as "trouble shooter" for the company. In this capacity he has logged considerable time in Central America and South America.

FRANKLIN SOGANDARES-BERNAL (M.S., 1955; Ph.D., 1958), 1224 Broadway, New Orleans 18, Louisiana. Although interest and research in trematodes placed Frank in the Department of Zoology, he sparked several "bug" courses. In recent years trematode research prompted a summer's residence at the Lerner Marine Laboratory, Bimini, B.W.I. Bimini, of course, was a natural for Frank's hobby of big game fishing. A staff member of Tulane University, Frank recently has been busy with encysted trematodes of crayfish and opisthorchioid trematodes.

CLARENCE A. SOOTER (Faculty, 1947-1948), 5011 Acacia Avenue, Bethesda 14, Maryland. Former students and associates will be pleased to note that Dr. Sooter now serves as Executive Secretary with the National Institute of Health. This position is related to the review of research grants involving the sections of general and cellular biology plus anatomy and physiology. In spite of the heavy work schedule, some time is still found for fishing, hunting, and birding.

EVERETT W. SPACKMAN (M.S., 1954), 4016 E. 9th Street, Cheyenne, Wyoming. Everett will be remembered as a disciple under Dr. Ball in insect physiology. He is now Director of the Division of Plant Industry, Wyoming Department of Agriculture. Everett does considerable traveling for the department throughout Wyoming in the line of Weed and Pest Control District supervision, apiary inspection, nursery inspection, seed inspection plus grasshopper and Mormon cricket control. Outdoor life is triply relaxing by sharing it with three sons.

LLOYD R. SPACKMAN (B.S., 1950), Genoa, Nebraska. Genoa in recent years has seen the development of the Gro-More Fertilizer Company. The name on the door of the president's office: Lloyd R. Spackman.

DOUGLAS SUTHERLAND (Graduate Student, 1956), Box 452, Trumansburg, New York. The army interrupted grad work while at Nebraska. Stationed in Maryland, Doug was able to take some course work in addition to serving time. After receiving his M. S. from the University of Delaware in 1960, Doug moved closer to home and is now grad assisting at Cornell University.

H. DOUGLAS TATE (Departmental Chairman, 1941-1946), Hamden, Connecticut. In nearby Naugatuck, the United States Rubber Company employs Dr. Tate as manager of the division of Agricultural Chemicals Research and Development. Gardening and travel are high on his list, particularly the latter. Whether vacation or professional, recent tours have included a large part of Europe, Hawaii, and Puerto Rico.

EUGENE G. THOMPSON (Staff, 1960), 37th Medical Company., (PVM) (Sep), APO 301, San Francisco, California. At present a medical entomologist with the United States Army, Gene served his first hitch with the government as USDA man working on alfalfa aphid and associated resistance. With return to the "States", Gene can catch up on golf, bowling, fishing and hunting.

CARROL M. VOSS (B.S., 1941), Box 91, Gettysburg, Pennsylvania. With the relatively recent emphasis on aerial application of pesticides, Carrol has contributed his part in developing and improving new methods. Nineteen fifty-six saw him in Ecuador, South America, starting the first helicopter spraying of bananas for Sigatoka disease control. Carrol is now president of Agrotors, Inc., Agricultural Helicopter Service.

CLIFFORD J. WALSTROM (B.S., 1949), Route 2, Ceresco, Nebraska. The birds and the bees--gamebirds and honeybees that is--take up the slack when Cliff isn't snowed under with the problems which beset him as State Entomologist and Chief of the Bureau of Plant Industry. Cliff's lad--getting pretty big by now--is a steady companion on fishing trips to Minnesota.

ROBERT J. WALSTROM (B.S., 1947; M.S., 1949), 1409 First Street, Brookings, South Dakota. Our next state neighbor Iowa State College conferred Bob's doctorate in 1955. Currently he is a staff member of South Dakota State College. Similar interests seem to run in the Walstrom family. Again, like his brother Cliff, apiculture and hunting go hand in hand. Bob trains retrievers and gets plenty of help from his canine students during the hunting season.

MORGAN C. WEBB (Ph.D., 1961), Whitworth College, Spokane 53, Washington. Bumblebees and their ecology received a great deal of attention as Morgan completed his doctoral thesis. He has the "honor" of being the first to receive the Ph.D. in Entomology from the University of Nebraska. Morgan is now a staff member and Head, Department of Biology, at Whitworth College. While at Nebraska, Morgan chalked up membership in Sigma Xi. With graduate work now out of the way, more time can be devoted to nature photography and woodworking.

DON B. WHELAN (Faculty, 1923-1944), 3855 Orchard Street, Lincoln, Nebraska. Mr. Whelan has had a long and rewarding career in both high school and college teaching; the new Dean of Agriculture, Dr. Frolik, and several department heads were former students. Entomologist for the military in the '40's, he is now self employed as pest control operator. Main efforts are prevention as well as control of insect and plant pests that affect lawns and yard plantings. Working alone from March to October, Mr. Whelan travels for one or two months and then returns home to plan the next year's work and review "what's new" in pest control.

JOHN H. WILLIAMS (M.S., 1959), 3735 Kansas, Apt. B, Riverside, California. "Jersey" was his nickname while an undergraduate at Grinnell College, Iowa, but it didn't stick at NU. Driving a near-antique 1935 Chevrolet for several years, the department used to take bets on whether John could make it to New Jersey and back. He usually made it. John is now located at Riverside, California. His current research assignment is investigation of insect control by chemosterilants. John's letters are quite enthusiastic in respect to California. One reason might be the swimming pool in his backyard.

R. KIM WINFIELD (Graduate Student, 1958-1961), BR17582188, Co. P, 4th Bn, 4th Trng Regt Spect, Class 34B, Ft. Leonard Wood, Mo. Kim is a product of St. Peter, Minnesota, home of Gustavus Adolphus College. After graduation from his hometown college, Kim accepted an assistantship at NU to complete research on the European corn borer. Relaxation was provided by hunting and shuffleboard; the Keg's championship trophy is now in his possession. A reserve unit member, Kim's unit was activated in early October. What a winter for field training! After field training, Kim reported to Fort Leonard Wood, Missouri, for special training.

SUAVI YALVAC (Exchange ICA Scholarship, 1957-1959), Ataturk University, Erzurum, Turkey. Dr. Yalvac received his degree from the University of Rostock, Mecklenburg, Germany (1939) and is now instructor of zoology and genetics at Ataturk University.

ROCKFORD G. YAPP, JR. (B.S., 1954), 3427 E. Redlands Ave., Fresno, California. As district representative for the Shell Chemical Company, Rocky's work takes him from Modesto to Bakersfield in a N-S direction; the San Joaquin Valley is the richest agricultural area in the United States. Main interests in this area is economic control of major insect and nematode pests. Annual vacation in Nebraska and Kansas suffices as travel.

